PTO/SB/96 (01-08)
Approved for use through 04/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: ROBERTS, et al.

Application No./Patent No.: 10/634,221 Filed/Issue Date: 8/4/2003

Entitled: Cytoplasmic Gene Inhibition or Gene Expression in Transfected Plants by a Tobraviral Vector

Novici Biotech, LLC, a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:
1. ☑ the assignee of the entire right, title, and interest; or

2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is_____ %)

in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Roberts, et al. To: Large Scale Biology Corporation
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: Large Scale Biology Corporation To: Novici Biotech, LLC
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☑ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.,* a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Wayne Fitzmaurice/	April 17, 2008
Signature	Date
Wayne P. Fitzmaurice	707-446-5595
Printed or Typed Name	Telephone Number
Senior Director	
Title	

ASSIGNMENT

This Assignment is made by Peter D. Roberts, Andrew A. Vaewhongs, and Monto H. Kumagai, Assignors, to LARGE SCALE BIOLOGY CORPORATION, Assignee, having a place of business at 3333 Vaca Valley Parkway, Suite 1000, Vacaville, California.

WHEREAS, Assignors have invented a new and useful CYTOPLASMIC INHIBITION OF GENE EXPRESSION IN TRANSFECTED PLANTS BY TOBRAVIRAL VECTOR for which an application for United States Letters Patent filed on January 25, 2001, in the United States Patent and Trademark Office, bearing Serial No. 09/771,035, now United States Patent No. 6,700,040, issued on March 2, 2004;

WHEREAS, Assignors believe themselves to be the original inventors of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors sell, assign, and transfer to Assignee, the entire right, title, and interest in and to said invention, said application, any applications entitled to benefit of priority to said application under Title 35, United States Code, Sections 120, 121 or 251, which include divisionals, continuations and reissues, and any Letters Patent that may be granted on said invention or these applications in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignors agree that, upon request and without further compensation, but at no expense to Assignors, they and their legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout

the world for said invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignors authorize and request that any United States or foreign Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation or reissue application, be issued to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

IN WITNESS WHEREOF, Assignors have executed this Assignment on the date(s) provided below.

Assignor: PETER D. ROBERTS

Signature 11/29/06
Date

STATE OF CALIFORNIA)
COUNTY OF Yolo)

On November 29, 2006, before me, Lori J. Lehman, Notary Public, personally appeared PETER D. ROBERTS, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS by hand and official seal.

(Signature of Notary)

LORI J. LEHMAN
Commission # 1432480
Notary Public - California
Yolo County
My Comm. Expires Jul 27, 2007

Assignor: ANDREW A. VAEWHONGS

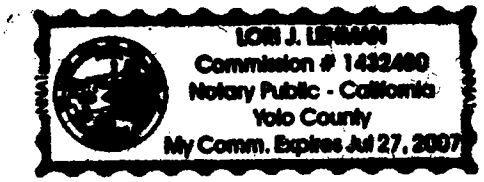
_____ 12-10-06
Signature Date

STATE OF CALIFORNIA)
COUNTY OF Solano)

On Dec 10, 2006 before me, Lori Lehman, Notary Public, personally appeared ANDREW A. VAEWHONGS, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS by hand and official seal.

_____
(Signature of Notary)



Assignor: MONTO H. KUMAGAI

_____
Signature Date

STATE OF HAWAII)
COUNTY OF)

On _____, before me, _____, Notary Public, personally appeared MONTO H. KUMAGAI, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS by hand and official seal.

_____
(Signature of Notary)

Assignor: ANDREW A. VAEWHONGS

Signature Date

STATE OF CALIFORNIA)
COUNTY OF SOLANO)

On _____, before me, Sharron J. Thompson, Notary Public, personally appeared ANDREW A. VAEWHONGS, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS by hand and official seal.

Sharron J. Thompson

Assignor: MONTO H. KUMAGAI

Monto H. Kumagai Sept. 17, 2004
Signature Date

STATE OF HAWAII)
COUNTY OF)

On SEP 17 2004, before me, Edwin Cuaresma, Notary Public, personally appeared MONTO H. KUMAGAI, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS by hand and official seal.

Edwin Cuaresma
(Signature of Notary)

Notary Public, State of Hawaii
My Commission expires 03/30/2007

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment") is entered into and effective as of March 18, 2008, by and between Large Scale Biology Corporation, a Delaware corporation, having its principal place of business at 3333 Vaca Valley Parkway, Suite 900, Vacaville, California 95688 ("Assignor" or "LSBC"), and Novici Biotech LLC, a Delaware limited liability company, having its office at 3333 Vaca Valley Parkway, Suite 400 Vacaville, CA 95688 ("Assignee" or "Novici"). The Assignor and the Assignee are sometimes referred to herein collectively as the "Parties" and individually as a "Party."

WHEREAS, Assignor is the owner of rights, title and interest in and to the certain patents and patent applications more specifically described in Exhibit A (collectively the "Patents"), and in and to the inventions claimed and disclosed in the Patents; and

WHEREAS, the Parties entered into that Asset Purchase Agreement ("APA") dated as of January 22, 2008, pursuant to which Assignor agreed to sell to Assignee, as is and where is, the Patents; and

WHEREAS, Assignee seeks to acquire all of Assignor's rights, title and interest in and to the Patents, and the inventions claimed and disclosed in the Patents and all other legal protection obtainable therefor throughout the world, and in any other country in which legal protection may be sought and enforced for said inventions, subject to all existing licenses thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the Parties hereby agree as follows:

1. Assignor hereby sells, assigns and transfers to Assignee, and Assignee's lawful successors and assigns, Assignor's entire right, title and interest in and to the Patents, the inventions as claimed and disclosed in the Patents and other legal protection based thereon or obtainable therefor throughout the world, together with all rights of priority, in and to Assignor's inventions as described and claimed in such Patents, including divisionals, continuations, continued prosecutions, continuations-in-part (if and to the extent they claim substantially the same subject matter as disclosed in such Patents) and their international equivalents, renewals, substitutes, reissues, extensions, and supplementary protection certificates thereof throughout the world, and all rights of priority resulting from or claimed by any of these patent applications, as well as all foreign counterparts and extensions thereof, together with all patents issuing on any of these applications to be held and enjoyed by Assignee, including without limitation the right to sue and collect for past infringement, to be held and enjoyed by Assignee for its own use and benefit, and for the benefit of its legal representatives, successors and assigns, to the full end of the terms of all of the patents which may be granted on the inventions in this or any other country, as fully and entirely as the same would have been held by Assignor had this Assignment not been made.

2. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks, and the appropriate office governing patents of any other country as appropriate, to record the Assignment as to each of said Patents, and to issue any and all Letters Patent of the United States, or of any other country throughout the world, for the inventions to Assignee, and

Assignee's lawful successors and assigns resulting from any of the aforesaid applications to the Assignee.

3. Assignor hereby covenants and agrees, without additional consideration, but at the expense of Assignee, to execute and deliver to Assignee, and Assignee's lawful successors and assigns, all lawful papers that may be necessary or desirable to perfect the title to any Patent or invention disclosed or claimed therein, and any divisionals, continuations, continued prosecutions (and their international equivalents), renewals, substitutes and reissues thereof throughout the world and any patents which may issue on the inventions. Assignor will, at any time, upon the request and without further consideration, but at the expense of Assignee, deliver any testimony in any legal proceedings and execute all papers and do all other things that may be necessary or desirable to perfect the title to the inventions, or any patents which may be granted therefor, in Assignee, its successors, assigns, or other legal representatives. Assignor will, at any time, upon the request and at the expense of Assignee, execute any continuations, divisionals, reissues, or any other additional applications for patents for the inventions or any part or parts thereof and any patents issuing thereon are hereby assigned to Assignee. The Assignor hereby authorizes the Assignee and the Assignee's agents to sign all such forms on behalf of the Assignor that are necessary and proper for Assignee to record the Patents and any other Patent Rights in the name of the Assignee. Assignor will make all rightful oaths, and do all lawful acts required or assistance requested by Assignee for procuring and enforcing any of the patents, without further compensation, but at the expense of Assignee, its successors, assigns or other legal representatives.

[SIGNATURE PAGE TO FOLLOW]

SIGNATURE PAGE TO PATENT ASSIGNMENT

IN WITNESS WHEREOF, the Parties have caused execution of this Assignment effective as of this 18th day of March 2008.

LARGE SCALE BIOLOGY CORPORATION
"Assignor"

By: _____
Name: Randy Sugarman
Title: Plan Administrator
Date: March 13th, 2008

STATE OF CALIFORNIA :
: SS:
COUNTY OF SAN FRANCISCO :

Before me personally appeared Randy Sugarman, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he/~~she~~ executed the same, of his/~~her~~ own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this 13th of March 2008.

_____
Notary Public

DIANE LABELLE
Commission # 1577861
Notary Public - California
San Francisco County
My Comm. Expires May 8, 2009

_____
"Assignee"

By: _____
Name: Hal S. Padgett
Title: General Manager
Date: March ___, 2008

STATE OF CALIFORNIA :
: SS:
COUNTY OF SOLANO :

Before me personally appeared Hal S. Padgett, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this ____ of March 2008.

_____
Notary Public

SIGNATURE PAGE TO PATENT ASSIGNMENT

IN WITNESS WHEREOF, the Parties have caused execution of this Assignment effective as of this 18th day of March 2008.

LARGE SCALE BIOLOGY CORPORATION
"Assignor"

By: _____
Name: Randy Sugarman
Title: Plan Administrator
Date: March ___, 2008

STATE OF CALIFORNIA :
: SS:
COUNTY OF SAN FRANCISCO :

Before me personally appeared Randy Sugarman, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this ____ of March 2008.

_____
Notary Public

Nevici Biotech LLC
"Assignee"

By: _____
Name: Hal S. Padgett
Title: General Manager
Date: March 18, 2008

STATE OF CALIFORNIA :
: SS:
COUNTY OF SOLANO :

Before me personally appeared Hal S. Padgett, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this ____ of March 2008.

See attached Certificate
_____
Notary Public

CALIFORNIA JURAT WITH AFFIANT STATEMENT

☒ See Attached Document (Notary to cross out lines 1–6 below)
☐ See Statement Below (Lines 1–5 to be completed only by document signer[s], *not* Notary)

1
2
3
4
5
6 _____ _____

Signature of Document Signer No. 1 — Signature of Document Signer No. 2 (if any)

State of California

County of Solano

Subscribed and sworn to (or affirmed) before me on this

14th (Date) day of March (Month), 2008 (Year) by

(1) Hal S Padgett (Name of Signer),

proved to me on the basis of satisfactory evidence to be the person who appeared before me (.) (,)

(and

(2) _____ (Name of Signer),

proved to me on the basis of satisfactory evidence to be the person who appeared before me.)

Signature Karen L Thompson (Signature of Notary Public)

KAREN L. THOMPSON
Commission # 1492034
Notary Public - California
Solano County
My Comm. Expires May 25, 2008

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Further Description of Any Attached Document

Title or Type of Document: Signature page to Patent Assignment

Document Date: _____ Number of Pages: 3

Signer(s) Other Than Named Above: Randy Sligar

RIGHT THUMBPRINT OF SIGNER #1	RIGHT THUMBPRINT OF SIGNER #2
Top of thumb here	Top of thumb here

EXHIBIT A- Patents and Patent Applications

SCHEDULE 1.01 (A)

LSBC Monocot Vectors Patents and Patent Applications

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
00801-0172-US00 United States	Cytoplasmic Inhibition of Gene Expression and Expression of a Foreign Protein in a Monocot Plant by a Plant Viral Vector	HOLZBERG POGUE	09/771,009 1/25/2001	6,800,748 10/5/2004	20020157131 10/24/2002
60-017201US United States D 00801-0172-US00 09/771,009 1/25/2001	Cytoplasmic Inhibition of Gene Expression and Expression of a Foreign Protein in a Monocot Plant by a Plant Viral Vector	HOLZBERG POGUE	10/913,536 8/6/2004		20050009012 1/13/2005
00801-0172-PC00 PCT US Case: 00801-0172-US00	Cytoplasmic Inhibition of Gene Expression and Expression of a Foreign Protein in a Monocot Plant by a Plant Viral Vector	HOLZBERG POGUE	PCT/US02/0391 6 1/23/2002		WO 02/059336 8/1/2002
60-017200AU Australia US Case: 00801-0172-US00	Cytoplasmic Inhibition of Gene Expression and Expression of a Foreign Protein in a Monocot Plant by a Plant Viral Vector	HOLZBERG POGUE	2002247100 1/23/2002		
60-017200CA Canada US Case: 00801-0172-US00	Cytoplasmic Inhibition of Gene Expression and Expression of a Foreign Protein in a Monocot Plant by a Plant Viral Vector	HOLZBERG POGUE	2,434,847 1/23/2002		
60-017200EP EPO US Case: 00801-0172-US00	Cytoplasmic Inhibition of Gene Expression and Expression of a Foreign Protein in a Monocot Plant by a Plant Viral Vector	HOLZBERG POGUE	02714861.8 1/23/2002		1362112 11/19/2003

SCHEDULE 1.01 (B)

LSBC Stem Cells Patents and Patent Applications

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
LSBC-0222-US01 United States V LSBC-CHUTE04 60/548,247 2/28/2004	Ex-Vivo Rescue of Hematopoietic Stem Cells After Lethal Irradiation	CHUTE	11/047,265 1/31/2005	2/23/2007	US-2006-0039895-A1 2/23/2006
LSBC-CHUTE04 United States	Ex-Vivo Rescue of Hematopoietic Stem Cells After Lethal Irradiation	CHUTE	60/548,247 2/28/2004		
CA1141 United States	Endothelial Cell Derived Hematopoietic Growth Factor	TUSE DAVIS MCCORMICK WANNBERG	60/344,680 10/31/2001		
CA1141A United States	Endothelial Cell Derived Hematopoietic Growth Factor	TUSE DAVIS MCCORMICK WANNBERG	60/348,903 10/26/2001		
CA1141B United States	Endothelial Cell Derived Hematopoietic Growth Factor	TUSE DAVIS MCCORMICK WANNBERG	60/338,309 12/6/2001		
CP1141C United States	Endothelial Cell Derived Hematopoietic Growth Factor	TUSE DAVIS MCCORMICK WANNBERG	60/364,799 3/15/2002		
CP1141D United States	Endothelial Cell Derived Hematopoietic Growth Factor	TUSE DAVIS MCCORMICK WANNBERG	60/372,498 4/11/2002		
LSB-T100C4X United States V CA1141A 60/348,903 10/26/2001 V CA1141 60/344,680 10/31/2001 V CA1141B 60/338,309 12/6/2001 V CP1141C 60/364,799	Endothelial Cell Derived Hematopoietic Growth Factor	TUSE DAVIS MCCORMICK WANNBERG	10/281,423 10/25/2002	6/19/2006	20030124091 7/3/2003

3/15/2002					
00801-0161-US00 United States	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+ CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	60/112,042 12/4/1998		
00801-0161-US01 United States V 00801-0161-US00 60/112,042 12/4/1998	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	09/452,855 12/3/1999	6,642,049 11/4/2003	
00801-0161-PCAU00 Australia US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	20440/00 12/3/1999	778504 12/9/2004	
00801-0161-PCCA00 Canada US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	2,353,561 12/3/1999		
00801-0161-PCEP00 EPO US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	99964134.3 12/3/1999		9/26/2001
00801-0161-PCIL00 Israel US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	143085 5/10/2001		
00801-0161-PCJP00 Japan US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	2000-588339 12/3/1999		2002-532087 10/2/2002
00801-0161-PCKR00 Korea US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	7006914/2001 6/2/2001		13480/2002 2/20/2002
00801-0161-PCMX00 Mexico US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	PA/a/2001/005 564 12/3/1999		
00801-0161-PCNZ00 New Zealand US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	511685 12/3/1999	511685 4/30/2004	
00801-0161-PCZA00 South Africa US Case: 00801-0161-US00	Human Brain Endothelial Cell Growth Medium and Method for Expansion of Primitive CD34+; CD38- Bone Marrow Stem Cells	CHUTE SAINI CHUTED	2001/4175 12/3/1999	2001/4175 5/29/2002	

LSBC-TUSEPSCF United States	Proliferation of Human Hematopoietic Cells without Significant Mast Cell Differentiation	TUSE	60/497,643 8/25/2003		

SCHEDULE 1.01 (C)

LSBC Tobraviral Vectors Patents and Patent Applications

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
LSBC-0137-CP04B United States D 00801-0137-CP04 09/771,035 1/25/2001	Cytoplasmic Gene Inhibition or Gene Expression in Transfected Plants by Tobraviral Vector	ROBERTS VAEWHONGS KUMAGAI	10/634,221 8/4/2003		20040088757 5/6/2004
00801-0137-CP04 United States P 00801-0137-US01 09/232,170 1/15/1999	Cytoplasmic Inhibition of Gene Expression in Transfected Plants by Tobraviral Vector	KUMAGAI ROBERTS VAEWHONGS	09/771,035 1/25/2001	6,700,040 3/2/2004	20020165370 11/7/2002
00801-0137-PC10 PCT US Case: 00801-0137-CP04	Cytoplasmic Gene Inhibition or Gene Expression in Transfected Plants by Tobraviral Vector	KUMAGAI ROBERTS VAEWHONGS	PCT/US02/02498 1/25/2002		WO 02/059335 8/1/2002
LSB-0137-PC10-AU Australia US Case: 00801-0137-CP04	Cytoplasmic Gene Inhibition or Gene Expression in Transfected Plants by Tobraviral Vector	KUMAGAI ROBERTS VAEWHONGS	2002242001 1/25/2002		
LSB-0137-PC10-CA Canada US Case: 00801-0137-CP04	Cytoplasmic Gene Inhibition or Gene Expression in Transfected Plants by Tobraviral Vector	KUMAGAI ROBERTS VAEWHONGS	2,435,610 1/25/2002		
LSB-0137-PC10-EP EPO US Case: 00801-0137-CP04	Cytoplasmic Gene Inhibition or Gene Expression in Transfected Plants by Tobraviral Vector	KUMAGAI ROBERTS VAEWHONGS	02707602.5 1/25/2002		1381687 1/21/2004

SCHEDULE 1.01 (D)

LSBC Viral Vectors Patents and Patent Applications

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
00801-0137-PC01 PCT US Case: 00801-0137-999	Method of Determining the Function of Nucleotide Sequences and the Proteins They Encode by Transfecting the Same into a Host	DELLA-CIOPPA ERWIN KUMAGAI	PCT/US99/01164 1/15/1999		WO 99/36516 7/22/1999
00801-0137-PC09 PCT US Case: 00801-0137-US09	Method for Conferring Herbicide, Pest, or Disease Resistance in Plant Hosts	KUMAGAI DELLA-CIOPPA	PCT/US00/20262 7/21/2000		WO 01/07601 2/1/2001
00801-0137-US03 United States P 00801-0137-US01 09/232,170 1/15/1999	Method For Constructing Viral Nucleic Acids In A Cell-Free Manner	PADGETT LINDBO	09/359,303 7/21/1999	2/11/2006	
00801-0137-CN03 United States C 00801-0137-US03 09/359,303 7/21/1999	Method For Constructing Viral Nucleic Acids In A Cell-Free Manner	PADGETT LINDBO	10/196,677 7/15/2002		20030166169 9/4/2003
00801-0137-US04 United States P 00801-0137-US01 09/232,170 1/15/1999	Method of Compiling a Functional Gene Profile in a Plant by Transfecting a Nucleic Acid Sequence of a Donor Plant into a Different Host Plant in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	09/359,301 7/21/1999	6,426,185 7/30/2002	
00801-0137-PC04 PCT US Case: 00801-0137-US04	Method of Correlating Sequence Function by Transfecting a Nucleic Acid Sequence of a Donor Organism Into a Plant Host in an Anti-Sense or Positive Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	PCT/US00/20261 7/21/2000		WO 01/07600 2/1/2001
00801-0137-PCJP04 Japan US Case: 00801-0137-US04	Method of Correlating Sequence Function by Transfecting a Nucleic Acid Sequence of a Donor Organism Into a Plant Host in	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	2001-512869 7/21/2000		

	an Anti-Sense or Positive Sense Orientation				
00801-0137-DV17 United States D 00801-0137-US04 09/359,301 7/21/1999	Method of Compiling a Functional Gene Profile in a Plant by Transfecting a Nucleic Acid Sequence of a Donor Plant into a Different Host Plant in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/105,697 3/21/2002		20030027182 2/6/2003
00801-0137-DV26 United States D 00801-0137-US04 09/359,301 7/21/1999	Method of Identifying a Nucleic Acid Sequence in a Plant	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/120,630 4/10/2002		20030027183 2/6/2003
00801-0137-DV19 United States D 00801-0137-US04 09/359,301 7/21/1999	Method of Increasing Grain Crop	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/133,934 4/24/2002		20030024008 1/30/2003
00801-0137-US05 United States P 00801-0137-US01 09/232,170 1/15/1999	Method of Compiling a Functional Gene Profile in a Plant by Transfecting a Nucleic Acid Sequence of a Donor Plant into a Different Host Plant in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	09/359,305 7/21/1999		
0137-US05-CON United States C 00801-0137-US05 09/359,305 7/21/1999	Method of Compiling a Functional Gene Profile in a Plant by Transfecting a Nucleic Acid Sequence of a Donor Plant into a Different Host Plant in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/236,508 9/6/2002		20030167512 9/4/2003
00801-0137-US06 United States P 00801-0137-US01 09/232,170 1/15/1999	Method of Compiling a Functional Gene Profile by Transfecting a Nucleic Acid Sequence of a Non-Plant Donor into a Host Plant in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	09/359,297 7/21/1999		
00801-0137-DV21 United States D 00801-0137-US06 09/359,297 7/21/1999	Method of Humanizing Plant cDNAs by Transfecting a Nucleic Acid Sequence of a Non-Plant Donor into a Host Plant in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/154,671 5/22/2002		20030064392 4/3/2003
00801-0137-DV20 United States D 00801-0137-US06 09/359,297 7/21/1999	Method of Isolating Human cDNAs by Transfecting a Nucleic Acid Sequence of a Non-Plant Donor into a Host Plant in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/142,077 5/8/2002		20030077619 4/24/2003
00801-0137-US07 United States P 00801-0137-US01 09/232,170	Method of Compiling a Functional Gene Profile by Transfecting a Nucleic Acid Sequence of a Non-Plant	KUMAGAI DELLA-CIOPPA ERWIN	09/359,300 7/21/1999		

1/15/1999	Donor into a Host Plant Plant in an Anti-Sense Orientation	MCGEE			
00801-0137-DV22 United States D 00801-0137-US07 09/359,300 7/21/1999	Method of Humanizing Plant cDNA	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/146,337 5/14/2002		20030041355 2/27/2003
00801-0137-DV23 United States D 00801-0137-US07 09/359,300 7/21/1999	Method of Isolating Human cDNA	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	10/137,765 5/1/2002		20030028926 2/6/2003
00801-0137-US08 United States P 00801-0137-US01 09/232,170 1/15/1999	Method for Enhancing RNA or Protein Production Using Non-Native 5' Untranslated Sequences in Recombinant Viral Nucleic Acids	KUMAGAI CHAPMAN DAWSON DONSON LEWANDOWSKI LINDBO POGUE SHIVPRASAD	09/359,299 7/21/1999		
00801-0137-PC08 PCT US Case: 00801-0137-US08	Method for Enhancing RNA or Protein Production Using Non-Native 5' Untranslated Sequences in Recombinant Viral Nucleic Acids	KUMAGAI CHAPMAN DAWSON DONSON LEWANDOWSKI LINDBO POGUE SHIVPRASAD	PCT/US00/20142 7/20/2001		WO 01/07613 2/1/2001
00801-0137-CN16 United States C 00801-0137-US08 09/359,299 7/21/1999	Method for Enhancing RNA or Protein Production Using Non-Native 5' Untranslated Sequences in Recombinant Viral Nucleic Acids	KUMAGAI CHAPMAN DAWSON DONSON LEWANDOWSKI LINDBO POGUE SHIVPRASAD	10/057,558 1/25/2002		20020164585 11/7/2002
LSBC-0137-CN16B United States C 00801-0137-CN16 10/057,558 1/25/2002	Method for Enhancing RNA or Protein Production Using Non-Native 5' Untranslated Sequences in Recombinant Viral Nucleic Acids	CHAPMAN DAWSON DONSON KUMAGAI LEWANDOWSKI LINDBO POGUE SHIVPRASAD	10/858,775 6/1/2004		20040214318 10/28/2004
00801-0137-US09 United States P 00801-0137-US01 09/232,170 1/15/1999	Method for Conferring Herbicide, Pest or Disease Resistance in Plant Hosts	KUMAGAI DELLA-CIOPPA	09/359,302 7/21/1999	6,303,848 10/16/2001	
00801-0137-CN09 United States C 00801-0137-US09 09/359,302 7/21/1999	Method for Conferring Herbicide, Pest or Disease Resistance in Plant Hosts	KUMAGAI DELLA-CIOPPA	09/969,447 10/1/2001	6,987,213 1/17/2006	20020069429 6/6/2002

00801-0137-US10 United States P 00801-0137-US01 09/232,170 1/15/1999	Method of Determining the Presence of a Trait in an Organism by Transfecting a Nucleic Acid Sequence of a Donor into a Host Organism in an Anti-Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	09/359,298 7/21/1999		
00801-0137-US11 United States P 00801-0137-US01 09/232,170 1/15/1999	Method of Determining the Presence of a Trait in an Organism by Transfecting a Nucleic Acid Sequence of a Donor into a Host Organism in a Positive Sense Orientation	KUMAGAI DELLA-CIOPPA ERWIN MCGEE	09/359,293 7/21/1999		
POGUE-A1A United States	Enhancement of Virus Induced Gene Silencing (VIGS) through Viral-based Expression of Inverted-Repeats	POGUE LACOMME	60/410,879 9/13/2002		
LSBC-POGUE-A1A United States C POGUE-A1A 60/410,879 9/13/2002	Enhancement of Virus Induced Gene Silencing (VIGS) through Viral-based Expression of Inverted-Repeats	POGUE LACOMME	10/660,860 9/12/2003		20040053225 3/18/2004
00801-0014-228 PCT US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	PCT/US89/00693 2/24/1989		WO 89/08145 9/8/1989
00801-0014-001 Canada US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	591,954 2/24/1989	1,340,378 2/2/1999	
00801-0014-007 Australia US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	40725/89 2/24/1989	638,411 11/12/1993	
00801-0014-012 Japan US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	503105/89 2/24/1989		
00801-0014-227 EPO US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation		89903418.5 2/24/1989		
00801-0014-CA01 Canada US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation		617,100 2/24/1989		
00801-0014-EP01 EPO US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD	99124650.5 2/24/1989	1013771 8/26/2004	1013771 10/6/2004

		TURPEN1			
00801-0014-EPDE01 Germany US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	99124650.5 2/24/1989	68929521.9 8/26/2004	
00801-0014-EPFR01 France US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	99124650.5 2/24/1989	1013771 8/26/2004	
00801-0014-EPGB01 United Kingdom US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	99124650.5 2/24/1989	1013771 8/26/2004	
00801-0014-EP02 EPO US Case: 00801-0014-999	Non-Nuclear Chromosomal Transformation		99124656.2 2/24/1989		
00801-0018-999 United States	Male Sterility in Plants	GRILL TURPEN1 ERWIN	07/347,637 5/5/1989		
00801-0018-US01 United States C 00801-0018-999 07/347,637 5/5/1989	Male Sterility in Plants	GRILL TURPEN1 ERWIN	07/641,617 1/16/1991		
00801-0025-999 United States C BIS-88001AUS1JI 07/249,479 9/26/1988	Production of Cyclodextrin in Plants	ERWIN GRILL MCGEE	07/469,737 1/19/1990		
BIS-88001AUS1JI United States	Production of Cyclodextrin in Plants	ERWIN GRILL MCGEE	07/249,479 9/26/1988		
00801-0004-001 Canada US Case: 00801-0020-999	Synthesis of Stereospecific Enzyme by Non-Chromosomal Transformation of a Host	ERWIN GRILL	605,443 7/12/1989	1,339,841 4/28/1998	
00801-0005-999 United States	Synthesis of an Esterase of Lipase by Non-Chromosomal Transformation of a Host	ERWIN GRILL	07/219,279 7/15/1988		
00801-0020-999 United States P 00801-0005-999 07/219,279 7/15/1988	Synthesis of Stereospecific Enzyme by Non-Chromosomal Transformation of Host	ERWIN GRILL	07/363,138 6/8/1989		
00801-0021-999 United States C 00801-0020-999 07/363,138 6/8/1989	Synthesis of Stereospecific Enzyme by Non-Chromosomal Transformation of a Host	ERWIN GRILL	07/737,899 7/26/1991		
00801-0177-US00 United States	Compositions and Methods for Inhibiting Gene	PALMER POGUE	09/545,574 4/7/2000		

	Expression				
00801-0177-PC00 PCT US Case: 00801-0177-US00	Compositions and Methods for Inhibiting Gene Expression	PALMER POGUE	PCT/US01/11436 4/4/2001		WO 01/77350 10/18/2001
00801-0179-US00 United States	Rolling Circle Replicon Expression Vector	PALMER POGUE	09/505,477 2/16/2000		
00801-0179-PC00 PCT US Case: 00801-0179-US00	Rolling Circle Replicon Expression Vector	PALMER POGUE	PCT/US01/05394 2/15/2001		WO 01/61024 A2 8/23/2001
60-017901US United States C 00801-0179-US00 09/505,477 2/16/2000	Rolling Circle Replicon Expression Vector	PALMER POGUE	10/286,186 11/1/2002	7,049,134 5/23/2006	20030143741 7/31/2003
60-017902US United States C 60-017901US 10/286,186 11/1/2002	Rolling Circle Replicon Expression Vector	PALMER POGUE	11/231,725 9/20/2005	9/22/2006	US-2006-0024821-A1 2/2/2006
00801-0179-CP01 United States P 00801-0179-US00 09/505,477 2/16/2000	Rolling Circle Replicon Expression Vectors	PALMER POGUE MCCORMICK	10/038,001 12/20/2001		20020187952 12/12/2002
00801-0185-PZ00 United States	Construction of a TMV Based Expression Vector	LINDBO	60/209,893 6/6/2000		
00801-0086-999 United States P 00801-0024-999 08/184,237 1/19/1994	The Cytoplasmic Inhibition of Gene Expression by Viral RNA	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	08/260,546 6/16/1994	5,922,602 7/13/1999	
00801-0086-228 PCT US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression by Viral RNA	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	PCT/US95/06741 5/26/1995		WO 95/34668 12/21/1995
00801-0086-001 Canada US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	2,193,094 5/26/1995	2,193,094 7/16/2002	
00801-0086-007 Australia US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	26534/95 5/26/1995	710588 1/20/2000	
00801-0086-009 Mexico US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON	9606476 5/26/1995	196927 6/12/2000	

		HARVEY GRILL			
00801-0086-012 Japan US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	8-502208 5/26/1995	9/28/2006	
00801-0086-187 Korea US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		707275/96 5/26/1995		
00801-0086-227 EPO US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	95921458.6 5/26/1995	0804600 7/31/2002	7/31/2002
00801-0086-DVCA01 Canada US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	2,309,028 5/26/1995	2,309,028 1/17/2006	
00801-0086-DVDE01 Germany US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	00127988.4 5/26/1995	69534421.8 8/31/2005	
00801-0086-DVEP01 EPO US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	00127988.4 5/26/1995	1087017 8/31/2005	1087017 3/28/2001
00801-0086-DVES01 Spain US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	00127988.4 5/26/1995	1087017 8/31/2005	
00801-0086-DVFR01 France US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	00127988.4 5/26/1995	1087017 8/31/2005	
00801-0086-DVGB01 United Kingdom US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	00127988.4 5/26/1995	1087017 8/31/2005	
00801-0086-DVIE01	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-	00127988.4 5/26/1995	1087017 8/31/2005	

Ireland US Case: 00801-0086-999		CIOPPA DONSON HARVEY GRILL			
00801-0086-EPAT00 Austria US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPBE00 Belgium US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPCH00 Switzerland/Liechtenstein US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPDE00 Germany US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	95921458.6 5/26/1995	69527654.9-08 7/31/2002	
00801-0086-EPDK00 Denmark US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPES00 Spain US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPFR00 France US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPGB00 Great Britain US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPGR00 Greece US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPIE00	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-	95921458.6 5/26/1995	0804600 7/31/2002	

Ireland US Case: 00801-0086-999		CIOPPA DONSON HARVEY GRILL			
00801-0086-EPIT00 Italy US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPLU00 Luxembourg US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPMC00 Monaco US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPNL00 Netherlands US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPPT00 Portugal US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-EPSE00 Sweden US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression		95921458.6 5/26/1995	0804600 7/31/2002	
00801-0086-147 South Africa US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression by Viral RNA	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	95/4451 5/31/1995	95/4451 4/24/1996	
00801-0086-158 Israel US Case: 00801-0086-999	The Cytoplasmic Inhibition of Gene Expression by Viral RNA		113,955 5/31/1995		
00801-0086-US01 United States C 00801-0086-999 08/260,546 6/16/1994	The Cytoplasmic Inhibition of Gene Expression by Viral RNA	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	09/265,576 3/9/1999	6,479,291 11/12/2002	20010006797 7/5/2001
00801-0086-US02 United States D 00801-0086-US01 09/265,576 3/9/1999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	09/436,068 11/8/1999	6,376,752 4/23/2002	

00801-0086-CN03 United States C 00801-0086-US01 09/265,576 3/9/1999	Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	10/103,450 3/20/2002	6,720,183 4/13/2004	20030219897 11/27/2003
00801-0086-CN04 United States C 00801-0086-CN03 10/103,450 3/20/2002	Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	10/773,601 2/6/2004		20040142477 7/22/2004
00801-0086-CN05 United States C 00801-0086-CN04 10/773,601 2/6/2004	Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	11/129,170 5/13/2005		20050204422 9/15/2005
00801-0189-NP01 United States V 00801-0189-PZ00 60/219,943 7/20/2000	Methods of Creating Dwarf Phenotypes in Plants	POGUE DELLA-CIOPPA WOLFE ZHENG	09/910,664 7/20/2001		20020194646 12/19/2002
00801-0189-PZ00 United States	Methods of Creating Dwarf Phenotypes in Plants	POGUE DELLA-CIOPPA WOLFE ZHENG	60/219,943 7/20/2000		
00801-0189-PC00 PCT US Case: 00801-0189-PZ00	Methods of Creating Dwarf Phenotypes in Plants	POGUE DELLA-CIOPPA WOLFE ZHENG	PCT/US01/23315 7/20/2001		WO 02/08411 1/31/2002
00801-0191-NP01 United States C 00801-0191-PZ00 60/276,886 3/16/2001	Episomal Non-Transforming Nucleic Acid Elements in Functional Genomic and Antigenic Applications	TUSE	10/098,606 3/15/2002		20020182626 12/5/2002
00801-0191-PZ00 United States	Episomal Non-Transforming Nucleic Acid Elements in Functional Genomic and Antigenic Applications	TUSE	60/276,886 3/16/2001		
00801-0191-PC00 PCT US Case: 00801-0191-PZ00	Episomal Non-Transforming Nucleic Acid Elements in Functional Genomic and Antigenic Applications	TUSE	PCT/US02/08091 3/15/2002		WO 02/075306 9/26/2002
00801-0192-NP00 United States	Expression of Foreign Genes from Plant Virus Vectors	SANTACRUZ POGUE TOTH CHAPMAN CARR	09/758,962 1/9/2001	1/23/2006	20030049228 3/13/2003
00801-0192-PC00 PCT US Case: 00801-0192-NP00	Expression of Foreign Genes from Plant Virus Vectors	SANTACRUZ POGUE TOTH CHAPMAN CARR	PCT/US02/01123 1/9/2002		WO 02/55719 7/18/2002

00801-0208-PZ00 United States	Method for Producing Human Glycoproteins in Transfected Plants Using RNA Viral Vectors	POGUE OPARKA LINDBO PADGETT FITZMAURICE VAEWHONGS KUMAGAI	60/316,793 8/31/2001		
34150/0043 United States C 00801-0109-US01 09/557,941 4/24/2000	Monopartite RNA Virus Transformation Vectors	TURPEN1 TURPEN GARGER GRILL DONSON DAWSON GRANTHAM	10/280,679 10/24/2002	9/15/2006	20030150019 8/7/2003
00801-0141-999 United States	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	09/265,575 3/9/1999		
00801-0141-PC00 PCT US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	PCT/US00/05929 3/8/2000		WO 00/53780 9/14/2000
00801-0141-PCAU00 Australia US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	36183/00 3/8/2000		
00801-0141-PCBR00 Brazil US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	PI0008766-1 9/5/2001		
00801-0141-PCCA00 Canada US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	2,372,306 3/8/2000		
00801-0141-PCEP00 EPO US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	00914847.9 3/8/2000		1/2/2002
00801-0141-PCIL00 Israel US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	145221 3/8/2000		
00801-0141-PCJP00 Japan US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	2000-603401 3/8/2000		11/12/2002
00801-0141-PCKR00 Korea US Case: 00801-	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	7011374/2001 3/8/2000		2/20/2002

0141-999					
00801-0141-PCMX00 Mexico US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	PA/a/2001/009043 3/8/2000		
00801-0141-PCNZ00 New Zealand US Case: 00801-0141-999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	514055 3/8/2000		
00801-0141-CN01 United States C 00801-0141-999 09/265,575 3/9/1999	Multiple Component RNA Vector System for Expression of Foreign Sequences	LEWANDOWSKI DAWSON TURPEN1 POGUE	10/057,335 1/24/2002		20020138873 9/26/2002
00801-0086-US02 United States D 00801-0086-US01 09/265,576 3/9/1999	The Cytoplasmic Inhibition of Gene Expression	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	09/436,068 11/8/1999	6,376,752 4/23/2002	
00801-0086-999 United States P 00801-0024-999 08/184,237 1/19/1994	The Cytoplasmic Inhibition of Gene Expression by Viral RNA	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	08/260,546 6/16/1994	5,922,602 7/13/1999	
00801-0086-US01 United States C 00801-0086-999 08/260,546 6/16/1994	The Cytoplasmic Inhibition of Gene Expression by Viral RNA	KUMAGAI DELLA-CIOPPA DONSON HARVEY GRILL	09/265,576 3/9/1999	6,479,291 11/12/2002	20010006797 7/5/2001
00801-0081-999 United States	Non-Chromosomal Transformation	GRILL HUBBARD	07/160,766 2/26/1988		
00801-0014-999 United States P 00801-0081-999 07/160,766 2/26/1988 P 00801-0080-US00 07/160,771 2/26/1988	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	07/310,881 2/17/1989		
00801-0015-999 United States C 00801-0014-999 07/310,881 2/17/1989	Non-Nuclear Chromosomal Transformation	GRILL ERWIN BERLINER HUBBARD TURPEN1	07/600,244 10/22/1990		
00801-0084-999 United States P 00801-0015-999 07/600,244 10/22/1990 P 00801-0018-US01 07/641,617	Recombinant Plant Viral Nucleic Acids	DONSON DAWSON GRANTHAM TURPEN1 TURPEN GARGER	07/739,143 8/1/1991		

1/16/1991 P 00801-0021-999 07/737,899 7/26/1991					
00801-0037-999 United States	Viral Amplification of Recombinant Messenger RNA in Transgenic Plants	TURPEN1	07/997,733 12/30/1992		
18696-169200 United States	Production of Bovine Lysozyme by Plant Viral Vectors	POGUE VELICHKO	60/240,967 10/18/2000		
42202 United States V 18696-169200 60/240,967 10/18/2000	Production of Bovine Lysozyme by Plant Viral Vectors	POGUE VELICHKO	09/978,199 10/17/2001	1/16/2006	20020104126 8/1/2002
00801-0203-PZ00 United States	Artificial Gene Viruses	PALMER POGUE	60/363,033 3/7/2002		
00801-0198-PZ00 United States	Construction of a TMV Based Expression Vector	LINDBO	60/296,610 6/6/2001		
N8636 United States	Preparation of Proteins with Altered Glycosylation	GARGER TURPEN1 KUMAGAI	60/387,624 6/11/2002		
N9042 United States	Preparation of Proteins with Altered Glycosylation and Enhanced Activity	GARGER TURPEN1 KUMAGAI	60/386,424 6/7/2002		

SCHEDULE 1.01 (E)

LSBC US Miscellaneous Patents and Patent Applications

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
00801-0030-999 United States	Conversion of Starch to Ethanol Using an Amylase Regulated by Pichia pastoris Alcohol Oxidase Nucleotide Sequences	KUMAGAI SVERLOW	08/037,617 3/25/1993		
CC-212A-R&D United States	DNA Sequence Encoding Nicotiana Squalene Synthetase	HANLEY HELLMANN NICOLAS	08/310,693 9/22/1994	5,741,898 4/21/1998	
CC-212-R&D United States	DNA Sequences Encoding Enzymes Useful in Carotenoid Biosynthesis	FITZMAURICE HELLMANN GRILL KUMAGAI DELLA-CIOPPA	08/261,086 6/16/1994	5,539,093 7/23/1996	
CC-212B-R&D United States	DNA Sequences Encoding Enzymes Useful in Phytoene Biosynthesis	FITZMAURICE HELLMANN GRILL KUMAGAI DELLA-CIOPPA	08/579,667 12/27/1995	5,705,624 1/6/1998	
CC-213-R&D United States	Method for Providing Green Note Compounds	HOLTZ MCCULLOCH GARGER TEAGUE PHILLIPS	08/218,165 3/25/1994	6,274,358 8/14/2001	
CC-213-R&D-PCT PCT US Case: CC-213-R&D	Method for Providing Green Note Compounds	HOLTZ MCCULLOCH GARGER TEAGUE PHILLIPS	PCT/US95/02929 3/8/1995		WO 95/26413 10/5/1995
00801-0031-999 United States	Pichia pastoris Alcohol Oxidase ZZA1 and ZZA2 Regulatory Regions for Heterologous Gene Expression	KUMAGAI SVERLOW	08/037,618 3/25/1993	5,500,483 3/19/1996	
00801-0065-999 United States P 00801-0031-999 08/037,618 3/25/1993 P 00801-0030-999	Pichia pastoris Alcohol Oxidase ZZA1 ZZA2 Regulatory Regions for Heterologous Gene Expression	KUMAGAI SVERLOW	08/220,606 3/25/1994	5,641,661 6/24/1997	

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
08/037,617 3/25/1993					
00801-0065-228 PCT US Case: 00801-0065-999	Pichia pastoris Alcohol Oxidase ZZA1 and ZZA2 Regulatory Regions for Heterologous Gene Expression	KUMAGAI SVERLOW	PCT/US94/03213 3/24/1994		WO 94/21802 9/29/1994
00801-0017-999 United States	Glucan/Collagen Therapeutic Eye Shields	ERWIN	07/341,012 4/18/1989	4,946,450 8/7/1990	
017942-000611 United States P 017942-000610 09/274,813 3/22/1999	Method for Inhibiting Inflammatory Disease	TUSE HIEBERT LADEROUTE WALEH	09/656,144 9/6/2000	6,433,012 8/13/2002	
017942-000610 United States C 017942-000600 60/079,313 3/25/1998	Methods for Inhibiting Angiogenesis	TUSE HIEBERT LADEROUTE WALEH	09/274,813 3/22/1999	6,150,407 11/21/2000	
017942-000600 United States	Methods for the Inhibition of Angiogenesis	TUSE LADEROUTE HIEBERT WALEH	60/079,313 3/25/1998		
017942-000200 United States	Di-aryl Ethers and Their Derivatives as Anti-Cancer Agents	TUSE CHEN HIEBERT	60/041,679 3/26/1997		
017942-000211 United States D 017942-000210 09/047,945 3/25/1998	Di-aryl Ethers and Their Derivatives as Anti-Cancer Agents	TUSE CHEN HIEBERT OLSEN LADEROUTE WALEH	09/637,443 8/11/2000		
00801-0110-999 United States D 00801-0008-999 07/609,311 11/5/1990	Methods of Treating Parkinson's Disease Using Melanin	BERLINER ERWIN MCGEE	08/488,419 6/7/1995	5,776,968 7/7/1998	
00801-0124-999 United States	Melanins With Improved Ability to Inhibit HIV Replication	GARGER NEIDLEMAN	08/796,822 2/6/1997	6,300,057 10/9/2001	
00801-0124-CN00 United States C 00801-0124-999 08/796,822 2/6/1997	Melanins With Improved Ability to Inhibit HIV Replication	GARGER NEIDLEMAN	09/969,448 10/1/2001	6,440,691 8/27/2002	20020039726 4/4/2002
00801-0006-999 United States	Melanin Therapy	BERLINER ERWIN MCGEE	07/243,736 9/13/1988		
00801-0008-999 United States P 00801-0007-999 07/331,123	Methods of Treating Parkinson's Disease Using Melanin	BERLINER ERWIN MCGEE	07/609,311 11/5/1990	5,210,076 5/11/1993	

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
3/31/1989					
00801-0110-999 United States D 00801-0008-999 07/609,311 11/5/1990	Methods of Treating Parkinson's Disease Using Melanin	BERLINER ERWIN MCGEE	08/488,419 6/7/1995	5,776,968 7/7/1998	
00801-0007-999 United States P 00801-0006-999 07/243,736 9/13/1988	Prophylaxis and Treatment of Nervous System Diseases With Melanin	BERLINER ERWIN MCGEE	07/331,123 3/31/1989		
00801-0009-999 United States D 00801-0008-999 07/609,311 11/5/1990	Therapeutic Uses of Melanin	BERLINER ERWIN	07/988,739 12/10/1992	5,703,051 12/30/1997	
00801-0106-999 United States C 00801-0009-999 07/988,739 12/10/1992	Therapeutic Uses of Melanin	BERLINER ERWIN MCGEE	08/471,071 6/6/1995	5,817,631 10/6/1998	
00801-0197-NP00 United States	Colony Array-Based cDNA Library Normalization by Hybridizations of Complex RNA Probes and Gene Specific Probes	WEI RUAN ZHENG	09/864,637 5/23/2001		20030032014 2/13/2003
00801-0206-NP00 United States	Method for Making Full-Length Coding Sequence cDNA Libraries	WEI	10/121,641 4/12/2002	1/13/2006	20050175993 8/11/2005
00801-0039-999 United States	Natural Savory and Umami Flavoring Materials from Dehydrated Mushroom	HOLTZ	08/251,470 6/1/1994	5,522,175 6/4/1996	
00801-0118-999 United States D 00801-0039-999 08/251,470 6/1/1994	New Natural Savory and Umami Flavoring Materials from Dehydrated Mushroom	HOLTZ	08/576,189 12/21/1995	5,709,048 1/20/1998	
00801-0010-999 United States	Melanin Production	GRILL GARGER SVERLOW ERWIN TURPEN1	07/251,809 10/3/1988		
00801-0012-999 United States D 00801-0011-999 07/607,119 11/2/1990	Melanin Production by Transformed Microorganisms	DELLA-CIOPPA GARGER SVERLOW TURPEN1 GRILL CHEDEKEL KUMAGAI	07/857,602 3/20/1992	5,631,151 5/20/1997	
00801-0011-999 United States	Melanin Production by Transformed Organisms	DELLA-CIOPPA	07/607,119 11/2/1990		

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
P 00801-0083-999 07/545,075 6/29/1990		GARGER SVERLOW TURPEN1 GRILL CHEDEKEL			
00801-0082-999 United States P 00801-0083-999 07/545,075 6/29/1990	Melanin Production by Transformed Organisms	DELLA-CIOPPA	07/888,771 3/27/1992		
00801-0083-999 United States P 00801-0010-999 07/251,809 10/3/1988	Melanin Production by Transformed Organisms	DELLA-CIOPPA GARGER SVERLOW TURPEN GRILL CHEDEKAL	07/545,075 6/29/1990		
00801-0104-999 United States D 00801-0012-999 07/857,602 3/20/1992	Melanin Production from Transformed Escherichia Coli	DELLA-CIOPPA GARGER SVERLOW TURPEN1 GRILL CHEDEKAL	08/401,746 3/9/1995	5,837,505 11/17/1998	
00801-0105-999 United States C 00801-0012-999 07/857,602 3/20/1992	Melanin Production from Transformed Microorganism	DELLA-CIOPPA GARGER SVERLOW TURPEN1 GRILL CHEDEKAL	08/404,384 3/14/1995	5,814,495 9/29/1998	
00801-0107-999 United States C 00801-0028-999 08/154,283 11/17/1993	Method for Making Stable Extra Cellular Tyrosinase and Synthesis of Polyphenolic Polymers Therefrom	DELLA-CIOPPA GARGER HOLTZ MCCULLOCH SVERLOW	08/471,993 6/6/1995	5,801,047 9/1/1998	
00801-0026-999 United States	Method for Making Stable, Extra Cellular Tyrosinase and Synthesis of Polyphenolic Polymers Therefrom	DELLA-CIOPPA GARGER HOLTZ MCCULLOCH SVERLOW	07/982,095 11/25/1992	5,340,734 8/23/1994	
00801-0027-999 United States D 00801-0026-999 07/982,095 11/25/1992	Method for Making Stable, Extra Cellular Tyrosinase and Synthesis of Polyphenolic Polymers Therefrom	DELLA-CIOPPA GARGER HOLTZ MCCULLOCH SVERLOW	08/154,171 11/17/1993	5,466,592 11/14/1995	
00801-0028-999 United States	Method for Making Stable, Extra Cellular Tyrosinase	DELLA-CIOPPA	08/154,283 11/17/1993	5,792,649 8/11/1998	

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
D 00801-0026-999 07/982,095 11/25/1992	and Synthesis of Polyphenolic Polymers Therefrom	GARGER HOLTZ MCCULLOCH SVERLOW			
00801-0029-999 United States D 00801-0026-999 07/982,095 11/25/1992	Method for Making Stable, Extra Cellular Tyrosinase and Synthesis of Polyphenolic Polymers Therefrom	DELLA-CIOPPA GARGER HOLTZ MCCULLOCH SVERLOW	08/166,465 12/14/1993	5,486,351 1/23/1996	
00801-0016-999 United States	Production of Melanins and Melanin Producing Enzymes in Plants by Stable Transformation	GRILL TURPEN1 ERWIN	07/332,924 4/4/1989		
00801-0080-US00 United States	Synthesis of Melanin By Non-Chromosomal Transformation of a Host	GRILL ERWIN BERLINER	07/160,771 2/26/1988		
00801-0040-999 United States P 00801-0012-999 07/857,602 3/20/1992 P 00801-0022-999 07/923,692 7/31/1992	Tyrosinase Activator Protein Fusion Enzyme	DELLA-CIOPPA KUMAGAI	08/152,483 11/12/1993	5,529,909 6/25/1996	
LSBC-POGUE-A2A United States	Cloning and Expression of Endogenous Cell Wall Hydrolases for Specific Killing of Xylella fastidiosa and Other Pathogenic Bacteria	POGUE	60/492,502 8/4/2003		
00801-0195-NPU United States	Inhibition of Peptide Cleavage in Plants	HANLEY VOJDANI NGUYEN FITZMAURICE	60/396,396 7/16/2002		
LSBC-HANLEY-0195 United States V 00801-0195-NPU 60/396,396 7/16/2002	Inhibition of Peptide Cleavage in Plants	HANLEY VOJDANI NGUYEN FITZMAURICE	10/620,669 7/16/2003		20040106198 6/3/2004
34150/0023 United States P 34150/0022 10/286,549 11/1/2002	Joining DNA Sequences Using Topoisomerase I	LINDBO	10/319,227 12/13/2002	7/28/2006	20030219773 11/27/2003
34150/0019 United States V CP1148 60/365,058 3/13/2002	Sticky RICE	LINDBO PADGETT	10/190,451 7/2/2002	7/10/2006	

Case No. Country Previous Case(s)	Title	Inventor(s)	Application Serial No. Filing Date	Patent No. Issue Date	Pub No. Pub. Date
34150/0022 United States P CP1148 60/365,058 3/13/2002 P 34150/0019 10/190,451 7/2/2002	Sticky RICE	LINDBO PADGETT	10/286,549 11/1/2002	6/20/2006	20030219878 11/27/2003
CP1148 United States	Sticky RICE	LINDBO	60/365,058 3/13/2002		
00801-0017-999 United States	Glucan/Collagen Therapeutic Eye Shields	ERWIN	07/341,012 4/18/1989	4,946,450 8/7/1990	
34150/0009 United States	Pegylated Lipid Hydrolyzing Polypeptides in the Treatment of Cholesterol-Related Diseases and Conditions	RAKITAN	60/516,554 10/30/2003		
00801-0194-PZ00 United States	Normalization of cDNA Synthesis	RUAN	60/328,276 10/9/2001		